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DATE: Thursday, June 12, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L5	subtilis with hish	9	L5
L4	aquifex with (transaminase or aminotransferase)	8	L4
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
L3	5939250.pn.	1	L3
L2	5939250	72	L2
L1	6268188	1	L1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 8 of 8 returned.☐ 1. Document ID: US 20030040092 A1

L4: Entry 1 of 8

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030040092

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030040092 A1

TITLE: Transaminases and aminotranferases

PUBLICATION-DATE: February 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Warren, Patrick V.	San Diego	CA	US	
Swanson, Ronald V.	Del Mar	CA	US	

US-CL-CURRENT: 435/193; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw Desc	Image
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☐ 2. Document ID: US 20020132295 A1

L4: Entry 2 of 8

File: PGPB

Sep 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020132295

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020132295 A1

TITLE: Enzymes having transaminase and aminotransferase activity and methods of use thereof

PUBLICATION-DATE: September 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Short, Jay M.	Rancho Santa Fe	CA	US	
Warren, Patrick V.	Philadelphia	PA	US	
Swanson, Ronald V.	Media	PA	US	
Mathur, Eric J.	Carlsbad	CA	US	

US-CL-CURRENT: 435/69.1; 435/128, 435/193, 435/320.1, 435/325, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw Desc	Image
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☐ 3. Document ID: US 6268188 B1

L4: Entry 3 of 8

File: USPT

Jul 31, 2001

US-PAT-NO: 6268188

DOCUMENT-IDENTIFIER: US 6268188 B1

TITLE: Transaminases and aminotransferases

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 4. Document ID: US 6013509 A

L4: Entry 4 of 8

File: USPT

Jan 11, 2000

US-PAT-NO: 6013509

DOCUMENT-IDENTIFIER: US 6013509 A

TITLE: Transaminases and aminotransferases

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 5. Document ID: US 5962283 A

L4: Entry 5 of 8

File: USPT

Oct 5, 1999

US-PAT-NO: 5962283

DOCUMENT-IDENTIFIER: US 5962283 A

TITLE: Transaminases and amnotransferases

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 6. Document ID: US 5814473 A

L4: Entry 6 of 8

File: USPT

Sep 29, 1998

US-PAT-NO: 5814473

DOCUMENT-IDENTIFIER: US 5814473 A

**** See image for Certificate of Correction ****

TITLE: Transaminases and aminotransferases

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

KMC	Draw Desc	Image
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☐ 7. Document ID: JP 2003000289 A

L4: Entry 7 of 8

File: JPAB

Jan 7, 2003

PUB-NO: JP02003000289A

DOCUMENT-IDENTIFIER: JP 2003000289 A

TITLE: TRANSAMINASE AND AMINOTRANSFERASE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

KMC	Draw Desc	Image
-----	-----------	-------

8. Document ID: JP 2003000288 A

L4: Entry 8 of 8

File: JPAB

Jan 7, 2003

PUB-NO: JP02003000288A

DOCUMENT-IDENTIFIER: JP 2003000288 A

TITLE: TRANSAMINASE AND AMINOTRANSFERASE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------

KWIC	Draw Desc	Image
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Terms	Documents
aquifex with (transaminase or aminotransferase)	8

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NEWS 25	Feb 26	PCTFULL now contains images
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NEWS 31	Apr 14	MEDLINE Reload
NEWS 32	Apr 17	Polymer searching in REGISTRY enhanced
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NEWS 37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS 38	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 39	May 16	CHEMREACT will be removed from STN
NEWS 40	May 19	Simultaneous left and right truncation added to WSCA
NEWS 41	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS 42	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS 43	Jun 06	PASCAL enhanced with additional data
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=> s aquifex (5a) (transaminase or aminotransferase)
L1 6 AQUIFEX (5A) (TRANSAMINASE OR AMINOTRANSFERASE)

=> dup rem l1
PROCESSING COMPLETED FOR L1

L2 4 DUP REM L1 (2 DUPLICATES REMOVED)

=> d 1-4

L2 ANSWER 1 OF 4 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
 AN 2003-08950 BIOTECHDS
 TI Novel purified aminotransferase or transaminase polypeptides, useful for
 catalyzing transfer of amino groups from alpha-amino to alpha-keto acids,
 and for modifying small molecules;
 recombinant enzyme protein production and vector expression in host
 cell for small molecule modification
 AU SHORT J M; WARREN P V; SWANSON R V; MATHUR E J
 PA SHORT J M; WARREN P V; SWANSON R V; MATHUR E J
 PI US 2002132295 19 Sep 2002
 AI US 2001-905173 12 Jul 2001
 PRAI US 2001-905173 12 Jul 2001; US 1996-599171 9 Feb 1996
 DT Patent
 LA English
 OS WPI: 2003-182286 [18]

L2 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AN 2000:313825 BIOSIS
 DN PREV200000313825
 TI Transaminases and aminotransferases.
 AU Warren, Patrick V. (1); Swanson, Ronald V.
 CS (1) Philadelphia, PA USA
 ASSIGNEE: Diversa Corporation
 PI US 6013509 January 11, 2000
 SO Official Gazette of the United States Patent and Trademark Office Patents,
 (Jan. 11, 2000) Vol. 1230, No. 2, pp. No pagination. e-file.
 ISSN: 0098-1133.
 DT Patent
 LA English

L2 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2003 ACS
 AN 1999:635429 HCAPLUS
 DN 131:271015
 TI Transminases and aminotransferases
 IN Warren, Patrick V.; Swanson, Ronald V.
 PA Diversa Corporation, USA
 SO U.S., 39 pp., Cont.-in-part of U.S. 5,814,473.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5962283	A	19991005	US 1996-646590	19960508
	US 5814473	A	19980929	US 1996-599171	19960209
	CA 2246243	AA	19970814	CA 1997-2246243	19970121
	WO 9729187	A1	19970814	WO 1997-US1094	19970121
	W: AU, CA, IL, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9718367	A1	19970828	AU 1997-18367	19970121
	AU 718147	B2	20000406		
	JP 2000505291	T2	20000509	JP 1997-528527	19970121
	JP 3414405	B2	20030609		
	EP 1015563	A1	20000705	EP 1997-903936	19970121
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2003000288	A2	20030107	JP 2002-137783	19970121
	JP 2003000289	A2	20030107	JP 2002-137827	19970121
	US 6268188	B1	20010731	US 1999-412184	19991004
	US 2002132295	A1	20020919	US 2001-905173	20010712
PRAI	US 1996-599171	A2	19960209		
	US 1996-646590	A	19960508		
	JP 1997-528527	A3	19970121		
	WO 1997-US1094	W	19970121		
	US 1998-69226	A1	19980427		
	US 1999-389537	A2	19990902		
	US 1999-412184	A2	19991004		
	US 2000-481733	A2	20000111		

L2 ANSWER 4 OF 4 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
AN 1997-11474 BIOTECHDS
TI Novel transaminases and aminotransferases;
recombinant thermostable enzyme production
AU Warren P V; Swanson R V
PA Recombinant-Biocatalysis
LO La Jolla, CA, USA.
PI WO 9729187 14 Aug 1997
AI WO 1997-US1094 21 Jan 1997
PRAI US 1996-646590 8 May 1996; US 1996-599171 9 Feb 1996
DT Patent
LA English
OS WPI: 1997-415343 [38]

=> s subtilis (5a)hish

L3 47 SUBTILIS (5A) HISH

=> dup rem l3

PROCESSING COMPLETED FOR L3

L4 16 DUP REM L3 (31 DUPLICATES REMOVED)

=> d 1-10

L4 ANSWER 1 OF 16 MEDLINE DUPLICATE 1
AN 2002465489 MEDLINE
DN 22212113 PubMed ID: 12224638
TI Significance of the 20-kDa subunit of heterodimeric 2-deoxy-scylo-inosose
synthase for the biosynthesis of butirosin antibiotics in Bacillus
circulans.
AU Tamegai Hideyuki; Nango Eriko; Koike-Takeshita Ayumi; Kudo Fumitaka;
Kakinuma Katsumi
CS Department of Chemistry, Tokyo Institute of Technology, Japan.
SO BIOSCIENCE, BIOTECHNOLOGY, AND BIOCHEMISTRY, (2002 Jul) 66 (7) 1538-45.
Journal code: 9205717. ISSN: 0916-8451.
CY Japan
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200303
ED Entered STN: 20020913
Last Updated on STN: 20030331
Entered Medline: 20030328

L4 ANSWER 2 OF 16 MEDLINE DUPLICATE 2
AN 2001315503 MEDLINE
DN 21281639 PubMed ID: 11388459
TI Incorporation of the whole chromosomal DNA in protoplast lysates into
competent cells of Bacillus subtilis.
AU Akamatsu T; Taguchi H
CS Department of Applied Microbial Technology, Sojo University, Kumamoto,
Japan.. akamatsu@bio.sojo-u.ac.jp
SO BIOSCIENCE, BIOTECHNOLOGY, AND BIOCHEMISTRY, (2001 Apr) 65 (4) 823-9.
Journal code: 9205717. ISSN: 0916-8451.
CY Japan
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200110
ED Entered STN: 20011029
Last Updated on STN: 20011029
Entered Medline: 20011025

L4 ANSWER 3 OF 16 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
AN 2001-05296 BIOTECHDS
TI A simple and rapid method for intra- and interspecific transformation of
Bacillus subtilis on solid media by DNA in protoplast lysates;
transformation in solid medium or microtiter plate using chromosomal

DNA in a *B. subtilis* protoplast lysate

AU Akamatsu T; Taguchi H
 CS Univ. Sojo
 LO Department of Applied Microbial Technology, Sojo University, Ikeda
 4-22-1, Kumamoto 860-0082, Japan.
 Email: akamatsu@bio.sojo-u.ac.jp
 SO Biosci. Biotechnol. Biochem.; (2001) 65, 2, 446-48
 CODEN: BBBIEJ ISSN: 0916-8451
 DT Journal
 LA English

L4 ANSWER 4 OF 16 HCAPLUS COPYRIGHT 2003 ACS

AN 1998:558042 HCAPLUS

DN 129:255828

TI The *gerC* locus of *Bacillus subtilis*, required for menaquinone
 biosynthesis, is concerned only indirectly with spore germination

AU Leatherbarrow, A. J. Howard; Yazdi, Mohammed A.; Curson, Janet P.; Moir,
 Anne

CS Krebs Institute for Biomolecular Research, Dept of Molecular Biology and
 Biotechnology, University of Sheffield, Sheffield, S10 2TN, UK

SO Microbiology (Reading, United Kingdom) (1998), 144(8), 2125-2130

CODEN: MROBEO; ISSN: 1350-0872

PB Society for General Microbiology

DT Journal

LA English

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 16 MEDLINE

DUPLICATE 3

AN 93185620 MEDLINE

DN 93185620 PubMed ID: 7916685

TI An allosterically insensitive class of cyclohexadienyl dehydrogenase from
Zymomonas mobilis.

AU Zhao G; Xia T; Ingram L O; Jensen R A

CS Department of Microbiology and Cell Science, University of Florida,
 Gainesville 32611-0100.

NC DK38309 (NIDDK)

SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (1993 Feb 15) 212 (1) 157-65.

Journal code: 0107600. ISSN: 0014-2956.

CY GERMANY: Germany, Federal Republic of

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

OS GENBANK-L09679; GENBANK-L09680; GENBANK-L09681; GENBANK-L09682;

GENBANK-L09683; GENBANK-M75891; GENBANK-X14400; GENBANK-X53688;

GENBANK-X57950; GENBANK-X67208

EM 199304

ED Entered STN: 19930416

Last Updated on STN: 19950206

Entered Medline: 19930402

L4 ANSWER 6 OF 16 MEDLINE

DUPLICATE 4

AN 93015709 MEDLINE

DN 93015709 PubMed ID: 1400209

TI Histidine biosynthesis genes in *Lactococcus lactis* subsp. *lactis*.

AU Delorme C; Ehrlich S D; Renault P

CS Laboratoire de Genetique Microbienne, Institut National de la Recherche
 Agronomique, Jouy-en-Josas, France.

SO JOURNAL OF BACTERIOLOGY, (1992 Oct) 174 (20) 6571-9.

Journal code: 2985120R. ISSN: 0021-9193.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

OS GENBANK-M90760; GENBANK-M94060; GENBANK-M94061; GENBANK-M94062;

GENBANK-M94629; GENBANK-M94692; GENBANK-X64378; GENBANK-X64379;

GENBANK-X64380; GENBANK-X64381

EM 199211

ED Entered STN: 19930122

Last Updated on STN: 19970
Entered Medline: 19921113

L4 ANSWER 7 OF 16 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT AND ISI
AN 1992-04253 BIOTECHDS
TI Successive protoplast transformation of *Bacillus subtilis* by plasmid DNA
under low concentration of lysozyme;
protoplast transformation system optimization using vector plasmid
pUB110
AU Hara T; Lee J T; Prana T K; Akamatsu T; Fujio Y; Ogata S
LO Microbial Genetic Division, Institute of Genetic Resources, Faculty of
Agriculture, Kyushu University, Hakozaki, Higashi-ku, Fukuoka 812, Japan.
SO J.Fac.Agric.Kyushu Univ.; (1991) 36, 1-2, 23-28
CODEN: JFAKAU
DT Journal
LA English

L4 ANSWER 8 OF 16 MEDLINE DUPLICATE 5
AN 90130317 MEDLINE
DN 90130317 PubMed ID: 2298700
TI Genetic map of the *Bacillus stearothermophilus* NUB36 chromosome.
AU Vallier H; Welker N E
CS Department of Biochemistry, Molecular Biology, and Cell Biology,
Northwestern University, Evanston, Illinois 60208.
SO JOURNAL OF BACTERIOLOGY, (1990 Feb) 172 (2) 793-801.
Journal code: 2985120R. ISSN: 0021-9193.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199003
ED Entered STN: 19900328
Last Updated on STN: 19900328
Entered Medline: 19900314

L4 ANSWER 9 OF 16 MEDLINE DUPLICATE 6
AN 87191994 MEDLINE
DN 87191994 PubMed ID: 3106153
TI The organization and nucleotide sequence of the *Bacillus subtilis*
hisH, *tyrA* and *aroE* genes.
AU Henner D J; Band L; Flaggs G; Chen E
SO GENE, (1986) 49 (1) 147-52.
Journal code: 7706761. ISSN: 0378-1119.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS GENBANK-M15409
EM 198705
ED Entered STN: 19900303
Last Updated on STN: 19900303
Entered Medline: 19870527

L4 ANSWER 10 OF 16 HCAPLUS COPYRIGHT 2003 ACS
AN 1985:482515 HCAPLUS
DN 103:82515
TI Nucleotide sequence of the *Bacillus subtilis* tryptophan operon
AU Henner, Dennis J.; Band, Louise; Shimotsu, Hidenori
CS Dep. Mol. Biol., Genentech, Inc., South San Francisco, CA, 94080, USA
SO Gene (1985), 34(2-3), 169-77
CODEN: GENED6; ISSN: 0378-1119
DT Journal
LA English

=> d 11-16

L4 ANSWER 11 OF 16 MEDLINE DUPLICATE 7
AN 85035858 MEDLINE

DN 85035858 PubMed ID: 6092
TI Direct plasmid transfer from replica-plated E. coli colonies to competent B. subtilis cells. Identification of an E. coli clone carrying the **hisH** and **tyrA** genes of B. **subtilis**.
AU van Randen J; Venema G
SO MOLECULAR AND GENERAL GENETICS, (1984) 195 (1-2) 57-61.
Journal code: 0125036. ISSN: 0026-8925.
CY GERMANY, WEST: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198411
ED Entered STN: 19900320
Last Updated on STN: 19900320
Entered Medline: 19841126

L4 ANSWER 12 OF 16 LIFESCI COPYRIGHT 2003 CSA DUPLICATE 8
AN 84:14204 LIFESCI
TI Direct plasmid transfer from replica-plated E. coli colonies to competent B. subtilis cells: Identification of an E. coli clone carrying the **hisH** and **tyrA** genes of B. **subtilis**.
AU van Randen, J.; Venema, G.
CS Dep. Genet., Biol. Cent., Kerklaan 30, 9751 NN Haren, Netherlands
SO MOL. GEN. GENET., (1984) vol. 195, no. 1-2, pp. 57-61.
DT Journal
FS W; N; G; J
LA English
SL English

L4 ANSWER 13 OF 16 SCISEARCH COPYRIGHT 2003 THOMSON ISI
AN 84:341831 SCISEARCH
GA The Genuine Article (R) Number: SX288
TI DIRECT PLASMID TRANSFER FROM REPLICA-PLATED ESCHERICHIA-COLI COLONIES TO COMPETENT B-SUBTILIS CELLS - IDENTIFICATION OF AN ESCHERICHIA-COLI CARRYING THE **HISH** AND **TYRA** GENES OF B-SUBTILIS
AU VANRANDEN J (Reprint); VENEMA G
CS BIOL CTR, DEPT GENET, KERKLAAN 30, 9751 NN HAREN, NETHERLANDS (Reprint)
CYA NETHERLANDS
SO MOLECULAR & GENERAL GENETICS, (1984) Vol. 195, No. 1-2, pp. 57-61.
DT Article; Journal
FS LIFE
LA ENGLISH
REC Reference Count: 21

L4 ANSWER 14 OF 16 HCAPLUS COPYRIGHT 2003 ACS
AN 1983:433864 HCAPLUS
DN 99:33864
TI Plasmid marker rescue transformation in Bacillus subtilis
AU Weinrauch, Y.; Dubnau, D.
CS Public Health Res. Inst., City of New York, Inc., New York, NY, 10016, USA
SO Journal of Bacteriology (1983), 154(3), 1077-87
CODEN: JOBAAY; ISSN: 0021-9193
DT Journal
LA English

L4 ANSWER 15 OF 16 MEDLINE DUPLICATE 9
AN 81165551 MEDLINE
DN 81165551 PubMed ID: 6260584
TI DNA cloning in Bacillus subtilis. III. Efficiency of random-segment cloning and insertional inactivation vectors.
AU Michel B; Palla E; Niaudet B; Ehrlich S D
SO GENE, (1980 Dec) 12 (1-2) 147-54.
Journal code: 7706761. ISSN: 0378-1119.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198106
ED Entered STN: 19900316

Last Updated on STN: 19900
Entered Medline: 19810625

L4 ANSWER 16 OF 16 HCAPLUS COPYRIGHT 2003 ACS
AN 1977:40016 HCAPLUS
DN 86:40016
TI Involvement of a histidine locus in tyrosine and phenylalanine synthesis
in Bacillus subtilis
AU Nester, Eugene W.; Montoya, Alice
CS Dep. Microbiol. Immunol., Univ. Washington, Seattle, WA, USA
SO Microbiology (Washington, D. C.) (1976) 141-4
CODEN: MICRDG; ISSN: 0098-1540
DT Journal
LA English

=> d 9 ab

L4 ANSWER 9 OF 16 MEDLINE DUPLICATE 6
AB The nucleotide sequence of approximately 3 kb of Bacillus subtilis DNA
distal to the trp operon was determined. Three open reading frames were
found and these were shown to encode the hisH, tyrA and aroE genes.
Integrative plasmids were constructed to interrupt transcription through
this region. These data suggest that these three genes can be transcribed
from both the trp promoter preceding the trp operon and from a promoter
within the trpA structural gene.

=> dis his

(FILE 'HOME' ENTERED AT 17:47:29 ON 12 JUN 2003)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,
NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 17:47:41 ON 12 JUN 2003

L1 6 S AQUIFEX (5A) (TRANSAMINASE OR AMINOTRANSFERASE)
L2 4 DUP REM L1 (2 DUPLICATES REMOVED)
L3 47 S SUBTILIS (5A)HISH
L4 16 DUP REM L3 (31 DUPLICATES REMOVED)

=> log h

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
37.78	37.99

FULL ESTIMATED COST

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 17:54:33 ON 12 JUN 2003